



(19)

(11) Publication number: 201

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: 11223689

(51) Int'l. Cl.: H04N 5/232 H04N 5/225

(22) Application date: 06.08.99

(30) Priority:

(43) Date of application
publication: 23.02.01(84) Designated contracting
states:

(71) Applicant: SUMITOMO WIRING

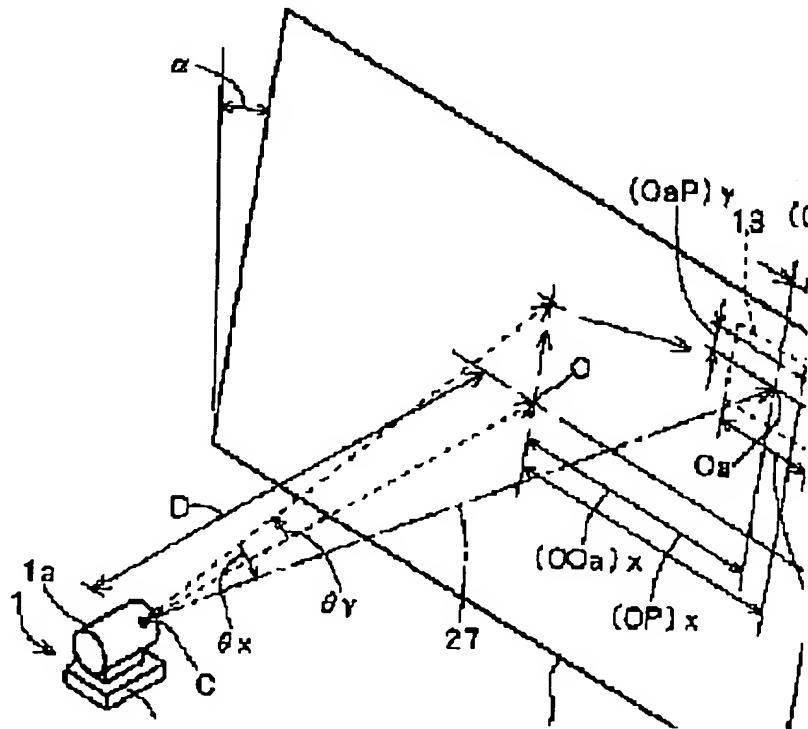
(72) Inventor: MATSUO KIYOSHI IN.
TSURUTA SATOSHI

(74) Representative:

**(54) POSITION DETECTION
METHOD USING IMAGE
PICKUP CAMERA****(57) Abstract:**

PROBLEM TO BE SOLVED: To detect the coordinate of a position on a plane area, which corresponds to a prescribed position in a picked-up image in a simple and inexpensive equipment.

SOLUTION: In the method, a pan tilt camera 1 image-picks up the point of measurement object P, which is the object of position detection on the plane area 11. A coordinate point corresponding to the point of measurement object P is recognized from the picked-up image. An X-coordinate $(OP)_x$ and a Y-coordinate $(OP)_y$ on the plane area 11 of the point of measurement object P are detected by substituting the coordinate of the coordinate point on the picked up image, a distance D between the pan tilt camera 1 and the

**BEST AVAILABLE COPY**

plane area 11, the inclination angle α of the plane area 11, a pan angle θ_x and a tilt angle θ_y , which decide the image pickup direction of the pan tilt camera 1 and the zoom value Z of the pan tilt camera 1 for prescribed X and Y measurement functions which are previously derived. Thus, the X-coordinate (OP) x and the Y-coordinate (OP) y of the point of measurement object P on the plane area 11 are detected.

1c

11



COPYRIGHT: (C)2001,JPO

BEST AVAILABLE COPY